

**IN THE CLAIMS:**

1. (Currently Amended) A medical image analysis process which utilizes information contained in at least one medical image, the process comprising:

deriving in which a quantitative evaluation; is derived from the medical image analysis process and delivered

delivering the quantitative evaluation as an output,

performing characterized in that the result of an error analysis, performed in order to provide information relating to the accuracy of the quantitative evaluation, said analysis yielding a result, and,

delivering the result is also delivered as a further output.

2. (Currently Amended) [[A]] The medical image analysis process, as claimed in claim 1, characterized in that the error analysis comprises steps wherein an image artefact which contributes to the image analysis process is identified, wherein the influence of the image artefact has an influence on the accuracy of the quantitative evaluation, which influence is calculated, and the results of the calculation of the influence on the accuracy of the quantitative analysis evaluation is incorporated into the delivered further output.

3. (Currently Amended) [[A]] The medical image analysis process, as claimed in claim 1, characterized in that the error analysis comprises steps wherein an image processing step which contributes to the image analysis process is identified, wherein the influence of the image processing step has an influence on the accuracy of the quantitative evaluation is calculated, which influence is calculated, and the results of the calculation of the influence on the accuracy of the quantitative analysis evaluation is incorporated into the delivered further output.

4. (Currently Amended) [[A]] The medical image analysis process, as claimed in claim 2, characterized in that the results of the calculation of the influence on the accuracy of the quantitative analysis evaluation is stored prior to incorporation into the delivered output.

5. (Currently Amended) ~~[[A]]~~ The medical image analysis process, as claimed in claim 4, characterized in that, the results of the calculation of the influence on the accuracy of the quantitative analysis evaluation is stored in at least one of a multidimensional table, a look up table, or a formula.
6. (Currently Amended) ~~[[A]]~~ The medical image analysis process, as claimed in claim 2, characterized in that, the identified image artefact which contributes to the image analysis process is at least one of noise, partial volume effect, sampling rate, inhomogeneity within the medical imaging process or an artefact due to patient motion.
7. (Currently Amended) ~~[[A]]~~ The medical image analysis process, as claimed in claim 3, characterized in that, the identified image processing step which contributes to the image analysis process is at least one of registration, outlier classification, contour placement or segment placement.
8. (Currently Amended) ~~[[A]]~~ The medical image analysis process, as claimed in claim 1, characterized in that, the medical image analysis process which utilizes information contained in the at least one medical image is the assessment of cardiac perfusion data, and the quantitative evaluation which is derived from the medical image analysis process and delivered as ~~[[an]]~~ the output is the myocardial perfusion reserve index.
9. (Currently Amended) A ~~computer~~ program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps, comprising instructions for a medical image analysis process which utilizes information contained in at least one medical image, the method steps comprising:  
deriving and in which a quantitative evaluation is derived from the medical image analysis process and delivered  
delivering the quantitative evaluation as an output,  
performing ~~characterized in that the computer program further comprises instructions wherein the result of an error analysis, performed in order to provide~~

information relating to the accuracy of the quantitative evaluation, said analysis yielding a result, and,

delivering the result ~~is also delivered~~ as a further output.

10. (Cancelled)